


|  |            |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
|--|------------|---|---|--------------------|------------|-------------|------------|----------------------|------------|----------|------|---------------|---------|------------------------|------------|
| <p style="font-size: 1.2em; margin: 0;">Substitute for form 1449A/PTO</p> <p style="font-size: 1.5em; margin: 0;"><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b></p> <p style="margin: 0;">(use as many sheets as necessary)</p> |            | <p style="margin: 0;"><b>Complete if Known</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Application Number</td><td>10/687,144</td></tr> <tr><td>Filing Date</td><td>10/16/2003</td></tr> <tr><td>First Named Inventor</td><td>FITZGERALD</td></tr> <tr><td>Art Unit</td><td>3617</td></tr> <tr><td>Examiner Name</td><td>UNKNOWN</td></tr> <tr><td>Attorney Docket Number</td><td>64,934-090</td></tr> </table> |   | Application Number | 10/687,144 | Filing Date | 10/16/2003 | First Named Inventor | FITZGERALD | Art Unit | 3617 | Examiner Name | UNKNOWN | Attorney Docket Number | 64,934-090 |
| Application Number   | 10/687,144 |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
| Filing Date  | 10/16/2003 |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
| First Named Inventor   | FITZGERALD |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
| Art Unit   | 3617       |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
| Examiner Name  | UNKNOWN    |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
| Attorney Docket Number   | 64,934-090 |   |   |                    |            |             |            |                      |            |          |      |               |         |                        |            |
| Sheet  | 1          | of  | 1 |                    |            |             |            |                      |            |          |      |               |         |                        |            |

| U.S. PATENT DOCUMENTS   |                          |                 |                                      |                                |  |   |
|---|--------------------------|-----------------|--------------------------------------|--------------------------------|--|---|
| Examiner<br>Initials <sup>*</sup>   | Cite<br>No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|   |                          | Number          | Kind Code <sup>2</sup><br>(if known) |                                |  |   |
|  |                          | US- 3,758,161   |                                      | 09/11/1973                     | BRADLEY ET AL                                      |   |
|   |                          | US- 4,436,133   |                                      | 03/13/1984                     | ROHR   |   |
|   |                          | US- 6,547,123   | B2                                   | 04/15/2003                     | KEMMERER   |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |
|   |                          | US-             |                                      |                                |  |   |

| FOREIGN PATENT DOCUMENTS |                          |                         |                     |                                 |                                |  |  |    |
|--------------------------|--------------------------|-------------------------|---------------------|---------------------------------|--------------------------------|--|--|----|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document |                     |                                 | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | To |
|                          |                          | Office <sup>3</sup>     | Number <sup>4</sup> | Kind <sup>5</sup><br>(if known) |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |
|                          |                          |                         |                     |                                 |                                |  |  |    |

|                    |                                |
|--------------------|--------------------------------|
| Examiner Signature | Date Considered <u>9/30/04</u> |
|--------------------|--------------------------------|

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.